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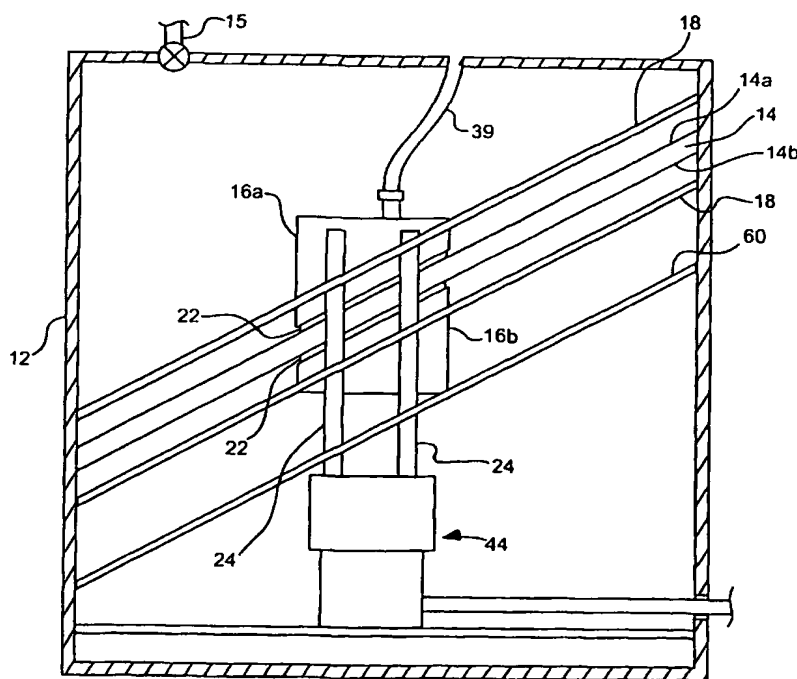
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[Continued on next page]

(54) Title: PRESSURE DIFFERENTIAL-DRIVEN ENGINE



(57) Abstract: A pressure differential-driven engine (10) includes an outer pressurizable enclosure (12). A pressure barrier plate (14) is disposed within the outer pressurizable enclosure and an actuator enclosure (16) is disposed adjacent the pressure barrier plate and has an actuator (17) disposed therein. The actuator has a high pressure exposure surface (30) forming an oblique angle with respect to the pressure barrier plate. The pressure barrier plate, a bottom of the actuator, and the actuator enclosure cooperatively define a pressurizable cavity (34) cyclable between a first, high pressure state, and a second, low pressure state. The actuator and actuator enclosure are collectively slidable relative to the barrier plate in reaction to cycling of the pressurizable cavity between the first and second pressure states to produce usable translational energy.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10375

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F01B 15/00

US CL : 92/117R

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 92/117R; 91/50; 74/25, 126, 128

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST: cylinder, actuator, guide, rail, slide

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,096,009 A (HIRMANN) 17 March 1992 (17.03.1992), whole document.	1, 12, 22

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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